BRUHATH BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements and Asphalting to Main and cross roads of M.S.Ramaiah Layout in Bagalagunte Ward No.14

DETAILED ESTIMATE

Ward No. 14					Est. Cost		5000000.00	
Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
1	2	3	4	5	6	7	8	9
1	KSRB 300-1 : Earthwork excavation by manual means in ordinary soil involving an average harizintal throw upto 2 meters and an average horizontal lift upto 0.5m, excavated surface leveled and sides neately dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No 142., I.No.19.1 of KPWD S.R 2016-17)							
	2nd Cross Rd from 5th mn to 2nd Mn							
		2	94.00	0.50	0.50	47.00		
	Soundraiya School Compound Rd 5th main to 2nd main							
		2	150.00	0.50	0.50	75.00		
	5th main rd 2nd cross to Soundraiya School Compound							
		2	145.00	0.50	0.50	72.50		
		2	70.00	0.50	0.50	35.00		
	4th main 2nd cross to	2	145.00	0.50	0.50	72.50		
		2	70.00	0.50	0.50	35.00		
	3rd main	2	145.00	0.50	0.50	72.50		
		2	70.00	0.50	0.50	35.00		
	2nd Main	2	145.00	0.50	0.50	72.50		
		2	70.00	0.50	0.50	35.00		
						552.00		
						552.00	**86.92**	**47980.00**
							Per Sqm	
	CSR of 2016-17							
	Basic Rate	82.00						
	Add A.W. 6%	4.92						
	TOTAL	**86.92**						

2	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406(Page No 158., I.No.20.18 of KPWD S.R 2016-17).							
	2nd Cross Rd from 5th mn to 2nd Mn							
		2	3.00	2.10	0.20	2.52		
		1	4.00	2.00	0.20	1.60		
		2	3.10	1.80	0.20	2.23		
		1	3.60	2.70	0.20	1.94		
	Soundraiya School Compound Rd 5th main to 2nd main							
		2	1.50	2.80	0.20	1.68		
		2	1.50	1.80	0.20	1.08		
		1	4.00	3.90	0.20	3.12		
	5th man rd 2nd cross to Soundraiya School Compound							
		1	2.60	1.80	0.20	0.94		
		4	3.80	2.80	0.20	8.51		
		2	3.00	2.80	0.20	3.36		
	4th main 2nd cross to Soundraiya School Compound							
		2	1.50	1.90	0.20	1.14		
		1	2.80	3.00	0.20	1.68		
		1	2.60	2.90	0.20	1.51		
	3rd main 2nd cross to Soundraiya School Compound							
		3	1.00	1.50	0.20	0.90		
		2	3.20	2.90	0.20	3.71		
	2nd Main 2nd cross to Soundraiya School Compound							
		1	2.50	1.80	0.20	0.90		
		2	2.30	2.00	0.20	1.84		
						38.66	**1768.08**	**68361.00**
							Per Cum	
	CSR of 2016-17							
	Basic Rate		1668.00					
	Add A.W. 6%		100.08					
	TOTAL		**1768.08**					

3	KSRRB-3000 Filling Pot-holes and Patch Repairs with Bituminous Concrete, 40 mm KSRRB M3000-5. Removal of all failed material, trimming of completed excavation to provide firm vertical faces, cleaning of surface, applying tack coat on the sides and base of excavation at 2.5kg/sqm as per clause 500.3, back filling the pot holes with hot bituminous material as per clause 500.4, compacting, trimming and finishing the surface to form a smooth continuous surface, all as per clause 3004.2 complete as per specifications MORTH Specification No. 3004.2 (Page No.257., I.No.35.5 of KPWD S.R 2016-2017)							
	2nd Cross Rd from 5th mn to 2nd Mn							
		2	3.00	2.10		12.60		
		1	4.00	2.00		8.00		
		2	3.10	1.80		11.16		
		1	3.60	2.70		9.72		
	Soundraiya School Compound Rd 5th main to 2nd main							
		2	1.50	2.80		8.40		
		2	1.50	1.80		5.40		
		1	4.00	3.90		15.60		
	5th man rd 2nd cross to Soundraiya School Compound							
		1	2.60	1.80		4.68		
		4	3.80	2.80		42.56		
		2	3.00	2.80		16.80		
	4th main 2nd cross to Soundraiya School Compound							
		2	1.50	1.90		5.70		
		1	2.80	3.00		8.40		
		1	2.60	2.90		7.54		
	3rd main 2nd cross to Soundraiya School Compound							
		3	1.00	1.50		4.50		
		2	3.20	2.90		18.56		
	2nd Main 2nd cross to Soundraiya School Compound							
		1	2.50	1.80		4.50		
		2	2.30	2.00		9.20		
						193.32	**302.10**	**58402.00**
							Per Cum	
	CSR of 2016-17							
	Basic Rate		285.00					
	Add A.W. 6%		17.10					
	TOTAL		**302.10**					

4	KSRB 500-2 : Cleaning the existing Black Topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of amchiineries complete as per specifications. Specification No. KRBS 500-2.4.2 MORTH Specification No.502-4.2 & 503-3.1 .(Page No 161., I.No.21.2 of KPWD S.R 2016-17)							
	2nd Cross Rd from 5th mn to 2nd Mn							
		1	94.00	9.30		874.20		
	Soundraiya School Compound Rd 5th main to 2nd main							
		1	150.00	6.00		900.00		
	5th main rd 2nd cross to Soundraiya School Compound							
		1	145.00	7.00		1015.00		
		1	70.00	7.20		504.00		
	4th main 2nd cross to	1	145.00	5.40		783.00		
		1	70.00	6.60		462.00		
	3rd main	1	145.00	6.90		1000.50		
		1	70.00	6.35		444.50		
	2nd Main	1	145.00	6.80		986.00		
		1	70.00	6.60		462.00		
						7431.20	**3.18**	**23631.00**
							Per Sqm	
	CSR of 2016-17							
	Basic Rate	3.00						
	Add A.W. 6%	0.18						
	TOTAL	**3.18**						
5	KSRRB 500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 (Page No.161, Item No. 21.7 of KPWD S.R.2016-2017)							
	2nd Cross Rd from 5th mn to 2nd Mn							
		1	94.00	9.30		874.20		
	Soundraiya School Compound Rd 5th main to 2nd main							
		1	150.00	6.00		900.00		
	5th main rd 2nd cross to Soundraiya School Compound							
		1	145.00	7.00		1015.00		
		1	70.00	7.20		504.00		
	4th main 2nd cross to	1	145.00	5.40		783.00		
		1	70.00	6.60		462.00		

	3rd main	1	145.00	6.90		1000.50		
		1	70.00	6.35		444.50		
	2nd Main	1	145.00	6.80		986.00		
		1	70.00	6.60		462.00		
						7431.20	11.66	86648.00
							Per Sqm	
	CSR of 2016-17							
	Basic Rate	11.00						
	Add A.W. 6%	0.66						
	TOTAL	11.66						
6	SRRB M500-11 : Providing and laying bituminous Macamdam on prepared surface with crushed coarse aggregates as design mix for base/binding course including loading of agregates with F.E loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity transporting the mixed material in tipper to paver and laying mixed materials paver finisher to the required level and grade, roo lling by power roller to achieve the desired density but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour HOM of machineries complete as per specifications using TPH capacity HMP with sensor paver Gr-II (50mm to 75mm) with 3.3% VG-30 Bitumen (Page No.162, Item No. 21.11.5 of KPWD S.R 2016-17)							
	For Profile Correction							
	2nd Cross Rd from 5th mn to 2nd Mn							
		1	94.00	3.00	0.05	14.10		
	Soundraiya School Compound Rd 5th main to 2nd main							
		1	150.00	3.00	0.05	22.50		
	5th main rd 2nd cross to Soundraiya School Compound							
		1	145.00	3.00	0.05	21.75		
						58.35	5546.98	323666.00
							Per Cum	
	CSR of 2016-17							
	Basic Rate	5233.00						
	Add A.W. 6%	313.98						
	TOTAL	5546.98						

7	KSRRB M500-19 : Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications.MORTH specification no.509 using 40-60 TPH capacity HMP with Sensor paver Gr- II (30mm to 45mm) with 6% VG-30 bitumen (Page No.165, Item No. 21.23.12 of KPWD S.R 2016-17)							
	2nd Cross Rd from 5th mn to 2nd Mn							
		1	94.00	9.30	0.04	34.97		
	Soundraiya School Compound Rd 5th main to 2nd main							
		1	150.00	6.00	0.04	36.00		
	5th main rd 2nd cross to Soundraiya School Compound							
		1	145.00	7.00	0.04	40.60		
		1	70.00	7.20	0.04	20.16		
	4th main 2nd cross to	1	145.00	5.40	0.04	31.32		
		1	70.00	6.60	0.04	18.48		
	3rd main	1	145.00	6.90	0.04	40.02		
		1	70.00	6.35	0.04	17.78		
	2nd Main	1	145.00	6.80	0.04	39.44		
		1	70.00	6.60	0.04	18.48		
						297.25	**13649.62**	**4057322.00**
							Per Cum	
	CSR of 2016-17							
	Basic Rate	12877.00						
	Add A.W. 6%	772.62						
	TOTAL	**13649.62**						
8	Add Plastic to Bituminous Concrete 8% of Bitumen							
	Qty Vide Item No: 7					**297.25**	**Cum**	
	8 % of the (297.25*8%) = 23.77*141 kg					**3352.84**		
						3352.84	**27.00**	**90526.65**
							Per Kg	

9	KSRRB M800-13 Road Markig with Hot Applied Thermoplastic compound with Reflectirising glass beads on Bituminous suface:- Providing and laying of Hot applied thermoplastic compund 2.5mm thick including reflectorising glass beads at 250gm/sqm area thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35 the finished surface to be level uniform and pre firm streads and holes complete as per specficaions (Page No.185,I.No.24.15 of KPWD S.R. 2016-2017)							
	2nd Cross Rd from 5th mn to 2nd Mn							
		2.5	94.00	0.10		23.50		
	Soundraiya School Compound Rd 5th main to 2nd main							
		2.5	150.00	0.10		37.50		
	5th main rd 2nd cross to Soundraiya School Compound							
		2.0	145.00	0.10		29.00		
		2.0	70.00	0.10		14.00		
	4th main 2nd cross to	2.0	145.00	0.10		29.00		
		2.0	70.00	0.10		14.00		
	3rd main	2.0	145.00	0.10		29.00		
		2.0	70.00	0.10		14.00		
	2nd Main	2.0	145.00	0.10		29.00		
		2.0	70.00	0.10		14.00		
						233.00	**542.72**	**126454.00**
							Per Sqm	
	CSR of 2016-17							
	Basic Rate	512.00						
	Add A.W. 6%	30.72						
	TOTAL	**542.72**						
9	Lead charges for conveying the excavated earth including loading and unloading upto 10kms as per directions (Page No.140 SL.No.5 of KPWD S.R 2016-17)							
	Qty.vide item No.1					**552.00**		
	Limited to					**552.00**	**106.00**	**58512.00**
							Per Cum	
	for 10 Kms 2.5x 1.28x10=32		32.00					
	Loading & Unloading charges		68.00					
	CSR of 2016-17	100.00						
	Basic Rate	100.00						
	Add A.W. 6%	6.00						
	TOTAL	**106.00**						

						SubTotal		4941502.65
10	Q.C 1% Charges							50000.00
11	Miscelleneous & other unforseen charges					LS		8497.35
						GRAND TOTAL Rs.		5000000.00

CERTIFICATE

1 The work spot have been inspected by me and work is found to be necessary.
2 This estimate is prepared as per CSR of 2016-17
3 This work is not split up
4 The provisions were made in this estimate are adequete and essential
5 This works comes under BBMP Limits

Asst.Engineer
Ward No.14

Asst.Executive Engineer
Bagalagunte Sub Division
B.B.M.P.

Executive Engineer
Dasarahalli Division
B.B.M.P.

ನಂ. EE/DP/01/646/17-18 ದಿನಾಂಕ: 23-12-17
ರೂ. [Rs.50.00 lakhs] Rupees fifty lakhs only
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ...

ಸಂ. CE/TS/1430/17-18 ದಿನಾಂಕ : 30-12-17
ರೂ. 50.00 (Rs. fifty lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು